

Aggregation-preventing wide-spectrum nanometer antibiotic silver yarn and its industrial production process

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Abstract

Superfine silver grains of 1-100 nm size are attached to yarn of animal or plant fabric material, and the superfine silver grains are coated by one 2-8 nm thick silver oxide layer. The nanometer silver yarn produced via aggregation preventing process has extremely strong and wide-spectrum antibiotic capacity and no toxicity, irritation, allergic reaction and drug resistance. It may be used in weaving various antibiotic fabric for medical and health purpose.

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